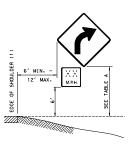
(1) EDGE OF TRAVELED WAY WHERE THERE IS NO PAVED OR STABILIZED SHOULDER.





HEIGHT AND LATERAL LOCATIONS FOR POST AND PORTABLE SIGN MOUNTING

WORK ZONE ACTIVITY	SIGN CLASSIFICATION	MOUNT ING METHOD	MINIMUM MOUNTING HEIGHT
	WARNIAN .	1, 2	T FT.
DAYTIME	WARNING	3, 4	12 IN.
OPERATIONS	GUIDE AND	1, 2	7 FT.
	REGULATORY	3, 4	5 FT.
NIGHTTIME	WARNING. GUIDE	1 • 2	7 FT.
OPERATIONS	AND REGULATORY	3. 4	5 FT.
INACTIVE OR CONTINUOUS OPERATIONS	WARNING. GUIDE AND REGULATORY	1. 2. 4	7 FT.

WORK ZOWE ACTIVITY:

AN ACTIVITY WHERE WORKERS ARE PRESENT ANY TIME FROM DAWN TO DUSK.
NIGHTIME OPERATION — AN ACTIVITY WHERE WORKERS ARE PRESENT ANY TIME FROM DUSK TO DAWN.
INACTIVE OPERATION — NO ACTIVITY OCCURRING ON STIE IN WORK ZOME (DAY, NIGHT, MEEKEND,
OFF—SEASON OR OTHER EXTENDED PERIOD OF TIME).

CONTINUOUS OPERATION — AN ACTIVITY WHERE SIGNS REAMIN IN PLACE 24 HOURS OR LONGER.

SIGN CLASSIFICATION: REFER TO STANDARD DRAWING 616.10, SHEET 5 OF 5.

MOUNTING METHOD:

1. POST - GROUND-MOUNTED SIGN SUPPORT SYSTEM WITH RIGID SIGN SUBSTRATE.

2. PORTABLE - SKID-MOUNTED OR DITHER SIGN SUPPORT SYSTEM WITH RIGID SIGN SUBSTRATE.

3. TEMPORARY - LIGHTEED WITHER POST MOUNTING IS NOT FEASIBLE.

4. BARRIER - SIGN SUPPORT SYSTEM WITH ROLL-UP OR RIGID SIGN SUBSTRATE.

5. IOM SUPPORT SYSTEM WITH ROLL-UP OR RIGID SIGN SUBSTRATE PERMITTED WHERE BARRIER IS THE SIGN MICH ROLL-UP OR RIGID SIGN SUBSTRATE PERMITTED WHERE BARRIER IS THE SIGN MICH AUST ASSURE POSITIVE CONNECTION TO BARRIER WITHOUT POTENTIAL FOR VEHICLE SHADEING.

MOUNTING HEIGHT:
VERTICAL HEIGHT OF SIGN MEASURED FROM THE BOTTOM OF THE SIGN TO THE NEAR EDGE OF
PAYMENTS.

# TABLE A WORK ZONE SIGN MOUNTING REQUIREMENTS

	POST TYPE						
SIGN AREA (SQ.FT.)	U-CHANNEL	WOOD	PERF. SQUARE STEEL TUBING				
≤ 10	1 - 3.0 ILB./FT.	1 - 4" X 4"*	1 - 2" 12 GA*				
> 10 ≤ 16	2 - 3.0 LB./FT.	2 - 4" X 4" 1 - 4" X 6"*	2 - 2" 12 GA.				
> 16 ≤ 24	2 - 3.0 LB./FT.	2 - 4" X 6"	3 - 2" 12 GA.**				
> 24 ≤ 30	3 - 3.0 LB./FT.	2 - 4" X 6"	N/A				
> 30 ≤ 50	N/A	2 - 6" X 6"	N/A				

<sup>\*</sup> SIGNS GREATER THAN 4 FEET IN WIDTH, EXCEPT DIAMOND SHAPE SIGNS, REQUIRE TWO POSTS.

TABLE B POST SIZE REQUIREMENTS

ALL SIGN SUPPORT SYSTEMS SHALL COMPLY WITH CRASH TEST REQUIREMENTS OF NCHRP 350 TEST LEVEL 3 EXCEPT FOR THOSE MOUNTED ON BARRIERS.

LONGITUDINAL SPACING OF SIGNS SHOWN IN THE PLANS ARE PREFERRED MINIMUMS. BUT MAY BE ADJUSTED TO MEET EXISTING FIELD CONDITIONS WITH APPROVAL FROM THE ENGINEER.

SIGNS MOUNTED ON PORTABLE OR TEMPORARY SUPPORTS MAY BE PLACED WITHIN THE ROADWAY ITSELF WITH THE APPROVAL OF THE ENGINEER.

SIGNS SHALL NOT BE MOUNTED IN OR ON CHANNELIZERS.

ALL POSTS AND SIGNS SHALL BE INSTALLED AND MAINTAINED IN A PLUMB POSITION.

ALL POSTS SHALL BE EMBEDDED A MINIMUM OF 3 FEET.

BRACING OF SUPPORT POSTS NOT ALLOWED.

SIGNS MOUNTED ON TEMPORARY SIGN SUPPORT SYSTEMS SHALL BE WITHIN 30° OF A VERTICAL POSITION FOR DAYTIME OPERATIONS AND WITHIN 5° OF A VERTICAL POSITION FOR NIGHTTIME OPERATIONS.

CONSTRUCTION SIGNS SHALL NOT BE LOCATED ON SIDEWALKS. BICYCLE LANES. OR AREAS DESIGNATED FOR PEDESTRIAN OR BICYCLE TRAFFIC.

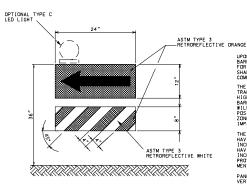
SUPPORT POST SHALL NOT EXTEND ABOVE THE SIGN UNLESS NEEDED FOR WARNING LIGHT ATTACHMENT.

ALL BATTERY PACKS SEPARATE FROM WARNING LIGHT SHALL BE MOUNTED ON A SUPPORT POST NO HIGHER THAN 18" ABOVE GROUND LINE. IF USED, WARNING LIGHTS SHALL NOT COVER ANY PORTION OF THE SION FACE.

REFER TO STANDARD DRAWING 903.03 FOR INSTALLATION DETAILS OF U-CHANNEL, WOOD AND

t	PERFORATED SQUARE STEEL TOBE POSTS:						
	MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION						
			DNTROL DEVICI NG REQUIREMENT				
	DATE:	EFFECT1VE: 04-01-2003	616.10AD	1 5			

<sup>\*\*</sup> REQUIRES SLIP BASE PER MANUFACTURER'S RECOMMENDATION.



DIRECTION INDICATOR BARRICADE

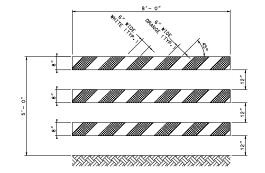
UPON APPROVAL FROM THE ENGINEER, DIRECTION INDICATOR BARRICADES MAY BE USED IN LIEU OF DRUM-LIKE CHANNELIZERS FOR MERGE TAPERS ONLY. DIRECTION INDICATOR BARRICAGES SHALL NOT BE USED IN SHIFTING TAPERS. NO ADDITIONAL COMP

THE BARRICADE SHALL BE MANUFACTURED SPECIFICALLY FOR TRAFFIC CONTROL PURPOSES AND SWALL BE FABRICATED FROM HIGH-GENETIN POLICIFICATION HIGH-GENETICATED FROM HIGH-GENETICATION FOR THE PROPERTY OF THE PROPERT

THE BARRICADE FRAME SHALL CONSIST OF VERTICAL MEMBERS HAVING NOWINAL DIMENSIONS OF 28 INCHES MIDE BY 39 INCHES HIGH BY 3 INCHES SHORE BY 3 INCHES HIGH BY 2 INCHES HIGH BY 3 INCHES HIGH BY 3 INCHES HIGH BY 3 INCHES HERY.

PANELS SHALL BE RECESSED WITHIN THE CONTOUR OF THE VERTICAL FRAME MEMBERS. A TOP AND BOTTOM PANEL SHALL BE FURNISHED FOR BOTH SIDES OF EACH BARRICADE. ONE SIDE OF EACH OF THESE PANELS SHALL BE SHEETED AS SHOWN WHILE THE OTHER SIDE SHALL BEAMIN UNSHEETED. SIDE OF THE PANELS SHALL BOTH OF SHALL SHALL

THE BARRICADE SHALL BE DESIGNED TO RESIST OVERTURNING BY MEANS OF HORIZONTAL FEET HAVING A MINIMUM WEIGHT OF 2.5 POUNDS. THE BARRICADE SHALL BE CAPABLE OF HANDLING ADDITIONAL BALLASTS. BALLASTS SHALL BE PLACED ONTO THE UPSTREAM FEET OF THE DEVICE MHEN USED.



TYPE III MOVABLE BARRICADES SHALL CONSIST OF THREE HORIZONTAL PANELS MOUNTED TO SUPPORTS IN SUCH A MANNER THAT THE ENTIRE ASSEMBLY IS CAPABLE OF REMAINING UPRIGHT AND ENTIRELY FREE STANDING.

THE SUPPORT STRUCTURE SHALL CONSIST OF A MINIMUM OF TWO UPRIGHTS CAPABLE OF KEEPING THE PANNELS SECURELY ATTACHED IN THE DESIGNATED ARRANGEMENT. THE UPRIGHTS SHALL BE MOUNTED TO A BASE CAPABLE OF SUPPORTING THE ENTIRE ASSEMBLY WHILE REMAINING COMPLETELY PORTABLE.

THE PANELS SHALL CONSIST OF A SUBSTRATE OF HIGH-DENSITY POLYETHYLENE, WOOD. OR OTHER APPROVED MATERIAL SHEETED WITH ASTM TYPE 7 RETRO-REFLECTIVE MATERIAL.

ONE TYPE 11I MOVABLE BARRICADE WILL BE REQUIRED TO COMPLETELY CLOSE EACH 8' OF TRAVELED WAY WIDTH.

NOMINAL DIMENSIONS WILL BE ALLOWED FOR DIMENSIONAL LUMBER.

NO SIGNS OR LIGHTING DEVICES SHALL BE MOUNTED OR ATTACHED TO TYPE III MOVABLE BARRICADES.

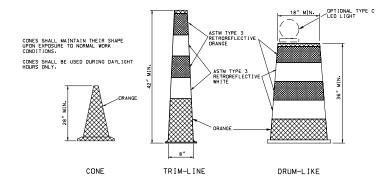
WHERE A BARRICADE ARRAY EXTENDS ACROSS A ROADWAY. THE STRIPES SHALL SLOPE DOWNWARD IN THE DIRECTION TOWARD WHICH TRAFFIC MUST TURN OR PASS.

WHERE BOTH RIGHT AND LEFT VEHICULAR MOVEMENTS ARE PROVIDED. THE STRIPES SHALL SLOPE DOWNWARD IN BOTH DIRECTIONS FROM THE CENTER OF THE BARRICADE ARRAY.

WHERE ND VEHICULAR MOVEMENTS ARE PROVIDED. THE STRIPES SHALL SLOPE DOWNWARD TOWARD THE CENTER OF THE BARRICADE ARRAY.

MARKING SHALL ONLY BE APPLIED TO TRAFFIC SIDE OF BARRICADE.

TYPE III MOVABLE BARRICADE



CHANNELIZERS

STRIPES ON TRIME-LINE CHANNELIZERS SHALL BE 6" TO 8". STRIPES ON DRUM-LIKE CHANNELIZERS SHALL BE 4" TO 6".

VERTICAL DIMENSIONS DO NOT INCLUDE PROJECTIONS
DESIGNED FOR EASE OF HANDLING.

MARKINGS ON CHANNELIZERS SHALL BE HORIZONTAL, CIRCUMFERENTIAL, ALTERNATING ORANGE AND WHITE RETRORFELECTIVE STRIPES. EACH CHANNELIZER SHALL HAVE A MINIMUM OF TWO DRANGE AND TWO WHITE STRIPES WITH THE TOP STRIPE BEING DRANGE LOCATED NO MORE THAN 4 INCHES FROM THE TOP. ANY NON-REFLECTINEZO SPACES BETWEEN THE HORZOTTAL ORANGE AND WHITE STRIPES SHALL NOT EXCEED 2 INCHES WIDE

DRUM-LIKE CHANNELIZERS SHALL HAVE CLOSED TOPS THAT WILL NOT ALLOW COLLECTION OF CONSTRUCTION OR OTHER DEBRIS.

TRIM-LINE CHANNELIZERS SHALL BE MANUFACTURED FROM LOW DENSITY POLYETHYLENE PLASTIC.

LDW DENSITY POLYEITHTENE PLASTIC.

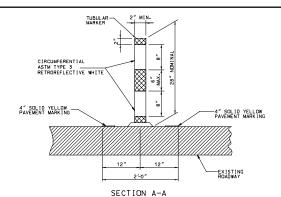
UPON APPROVAL FROM THE REGINEER TRIM—LINE
CHANNELIZERS AND PER USED IN LIEU OF DRUM—LIKE
CHANNELIZERS IN RAMP AREAS AND INTERSECTIONS
WHERE SIGHT THE PROPER AND THE OBSTRUCTED BY
SECTIONS OF CHANNELIZER TO WHERE THERE IS
INADEQUATE LATERAL CLEARANCE TO USE DRUM—LIKE
CHANNELIZERS. HIM—LINE CHANNELIZERS SHALL BE
CHANNELIZERS.

GENERAL NOTES:

BALLAST FOR TRAFFIC CONTROL DEVICES SHALL CONFORM TO MANUFACTURERS' RECOMMENDATION FOR FIELD CONDITIONS.

IF REQUIRED BY THE ENGINEER OR SPECIFIED ON THE PLANS, EACH DIRECTION INDICATER BARRICAGE ON ORGAN-LIKE CHANNELIZER SHALL BE EQUIPPED WITH ONE TYPE C LOWER CONTROL OF THE PROPERTY COMPANIENT OF THE PROPERTY COMPANIENT OF THE PROPERTY COMPANIENT OF THE PROPERTY COMPANIENT OF THE PROPERTY OF THE PROPERT

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION						
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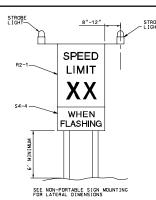
### TUBULAR MARKER DETAIL

THE TUBULAR MARKER SHALL BE MADE OF A FLEXIBLE MATERIAL OR HAVE A FLEXIBLE JOINT AT THE BASE SUCH THAT IT WILL NOT CAUSE DAMAGE TO VEHICLES UPON IMPACT AND WILL RETURN TO ITS ORIGINAL SHAPE AFTER BEING STRUCK BY 5000 LB. VEHICLE AT A VELOCITY OF 75 FT./SEC.

THE TUBULAR MARKER SHALL BE ORANGE WITH TWO WHITE ASTM TYPE 3 RETROREFLECTIVE STRIPES.

REFLECTORIZED MATERIALS SHALL HAVE A SMOOTH SEALED OUTER SURFACE WHICH WILL DISPLAY THE SAME APPROXIMATE COLOR DAY AND NIGHT.

AN ADHESIVE, IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. SHALL BE USED TO APPLY THE TUBULAR MARKER TO THE ROADWAY SURFACE. THE ADHESIVE SHALL PERMIT EASY REMOVAL OF THE TUBULAR MARKER WITHOUT DAMAGE TO THE ROADWAY SURFACE.



#### SPEED LIMIT AND STROBE LIGHT ASSEMBLY

THE ASSEMBLY MAY BE EITHER POST- OR PORTABLE-MOUNTED. THE ASSEMBLY SHALL DNLY BE USED AS SPECIFIED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

THE ASSEMBLY SHALL BE COVERED OR ROTATED SO THE SIGNS ARE NOT VISIBLE TO TRAFFIC WHEN WORK IS SUSPENDED OR THE CONDITION REQUIRING THE SPEED REDUCTION IS NOT PRESENT FOR 48 HOURS OR MORE.

THE STROBE LIGHTS SHALL BE TURNED OFF WHEN THE SPEED LIMIT IS NOT IN EFFECT.

#### STROBE LIGHT REQUIREMENTS

THE STRONG LIGHTS SAIL BE 19/24 VIG BATTER? OR SOLARPROBERCO WIT AMERS PRECEDEL INFORMED RELEASE. THE STRONG
INFORMATION OF THE STRONG RELEASE IN THE STRONG
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BOLDON CAMBEEPPER OF THE STRONG HE STRONG THE STRONG
SOLOD CAMBEEPPER OF THE STRONG THE STRONG THE STRONG
STRONG RELEASE WERE VIEWED FACING THE SIGN. THE LIGHTS
FROM THE REAR. NO DIRECT PAYMENT WILL BE AMBEE FOR THE
SATTERIES REQUIRED TO PROVE THE STRONG LIGHTS.

AT THE CONTRACTOR'S PPTION. THE STROBE LIGHTS MAY BE CONTROLLED BY A SWITCH LICATED ON THE SIGN OB BE A SWITCH LICATED ON THE SIGN OF THE SWITCH LICATED ON THE SWITCH LIGHT ASSWITCH SHALL BE FUNNISHED TO THE SWITCH LIMIT ASSWITCH THE THAN OF INSTALLATION OF THE SWITCH LIMIT ASSWITCH THE COMPLETION OF THE FROMETT OF THE TRANSMITTER AND RECEIVERS WILL REMAIN THE PROPERTY OF THE CONTRACTOR AFTER THE PROJECT IS COMPLETED. NO DIRECT PANENT WILL REMAIN THE TRANSMITTER AND RECEIVERS WITH COST OF THE TRANSMITTER AND THE SWITCH SIGN OF THE SWITCH SWIT

#### PORTABLE WARNING LIGHTS

TYPE A TYPE B
LOW INTENSITY HIGH INTENSITY TYPE C STEADY BURN

LENS DIRECTIONAL FACES 1 OR 2 55 TO 75 1 OR 2 55 TO 75 CONSTANT FLASHING RATE PER MINUTE MINIMUM ON-TIME(1) HOURS OF OPERATION DUSK TO DAWN 24HRS/DAY DUSK TO DAWN

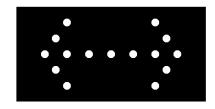
TYPE A AND C LIGHTS SHALL BE VISIBLE ON A CLEAR NIGHT FROM A DISTANCE OF

JUDY EELICE!.
TYPE B LIGHTS SHALL BE VISIBLE ON A SUNNY DAY WHEN VIEWED WITHOUT THE SUN DIRECTLY ON OR BEHIND THE DEVICE FROM A DISTANCE OF 1000 FEETIZ).

(1) LENGTH DO TIME THAT INSTANTANEOUS INTENSITY IS EQUAL TO OR GREATER THAN EFFECTIVE INTENSITY.

(2) THIS VISIBILITY MUST BE MAINTAINED WITHIN A SOLID ANGLE 9° ON EACH SIDE OF THE VERTICAL AXIS, AND 5° ABOVE AND 5° BELDW THE HORIZONTAL AXIS.

PORTABLE WARNING LIGHTS SHALL BE BATTERY- OR SOLAR-POWERED.



## FLASHING ARROW PANEL REQUIREMENTS

FLASHING ARROW PANELS USED IN STATIONARY OPERATIONS SHALL HAVE A NOMINAL PANEL SIZE OF 4 FEET HIGH BY 8 FEET WIDE. PANELS MAY BE EITHER TRAILER- OR TRUCK-MOUNTED. FLASHING ARROW PANELS USED IN OPERATIONS WHICH MOVE INTERMITTENTLY OR CONTINUOUSLY SHALL HAVE A MINIMUM NOMINAL PANEL SIZE OF 3 FEET HIGH BY 6 FEET WIDE. PANELS SHALL BE TRUCK-MOUNTED.

LAMPS MUST BE VISIBLE AT AN ANGLE OF 15° TO THE LEFT AND RIGHT OF CENTER AND 4° ABDVE AND BELOW CENTER DURING "ON TIME".

PANEL MOUNTING HEIGHT SHALL BE 7 TO 9 FEET FROM THE ROADWAY SURFACE TO THE LOWEST POINT ON THE PANEL. THE BOTTOM OF THE PANEL SHALL BE RELATIVELY LEVEL WHEN IN USE.

PANEL SHALL CONTAIN A DEVICE TO ALIGN THE ARROW PANEL TO DICCOMING TRAFFIC.

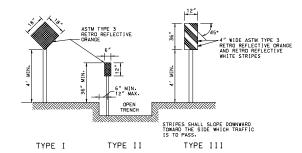
CAUTION: FLASH THE 2 HIGHEST AND 2 LOWEST LAMPS ON PANEL SIMULTANEOUSLY. LEFT OR RIGHT ARROW: FLASH 5 LAMPS IN THE ARROWHEAD AND 5 LAMPS IN THE HORIZONTAL SHANK SIMULTANEOUSLY.

DDUBLE ARROW: FLASH 5 LAMPS IN BOTH THE LEFT AND RIGHT ARROWHEADS AND 3 LAMPS IN THE HORIZONTAL SHANK SIMULTANEOUSLY.

ADDITIONAL REQUIREMENTS FOR SOLAR-POWERED ARROW PANELS:

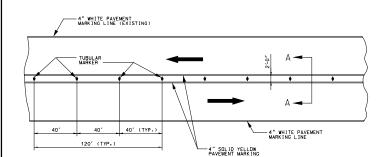
THE FLASHING ARROW SHALL BE ABLE TO OPERATE IN THE SINGLE ARROW MODE IN TOTAL DARKNESS FOR 20 CONSECUTIVE DAYS.

A DEVICE SHALL BE PROVIDED TO INDICATE THE REMAINING CHARGE IN BATTERIES.



## **OBJECT MARKERS**

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TWO LANE / TWO WAY TRAFFIC DELINEATION PLAN FOR DIVIDED HIGHWAY IF RAISED PAVEMENT MARKERS ARE PRESENT, THE LENSES SHALL BE REMOVED OR COVERED TO THE SATISFACTION OF THE ENGINEER.

LOCATION OF ACTIVITY (I.E. WORKERS,	POSTED SPEED GRE	EATER THAN 55 MPH	POSTED SPEED LESS THAN OR EQUAL TO 55 MPH					
EQUIPMENT, MATERIAL)	PROTECTED	UNPROTECTED	PROTECTED	UNPROTECTED				
BEYOND 30' OF EOTP	POSTED	OSTED POSTED		POSTED				
10' TO 30' OF EOTP	POSTED	POSTED-10	POSTED	POSTED				
WITHIN 10' OF EOTP	POSTED	POSTED-10	POSTED	POSTED-10				
IN TRAFFIC LANE OF MULTILANE FACILITY	POSTED-10	POSTED-20 (MIN. 45 MPH)	POSTED-10	POSTED-10				
	2 LANE / 2 WAY OPERATION							
BEYOND 10' OF EOTP	POSTED	POSTED-10 (MIN. 55 MPH)	POSTED	POSTED				
WITHIN 10' OF EOTP	POSTED	POSTED-20 (MIN. 45 MPH)	POSTED	POSTED-10				
1 LANE / 2 WAY OPERATION	35 MPH *							
TEMPORARY CLOSURE WITH FLAGGER	35 MPH *							

#### LEGEND:

"EOTP" = EDGE OF THROUGH PAVEMENT

"PROTECTED" INDICATES THAT ACTIVITY IS PHYSICALLY SHIELDED BY A CRASH-WORTHY DEVICE (TRAFFIC BARRIER, GUARD RAIL, IMPACT ATTENATORS, ETC.).

"UNPROTECTED" INDICATES THAT ACTIVITY IS NOT SHIELDED BY A CRASH-WORTHY DEVICE. IT MAY ONLY BE DELINEATED BY CHANNELIZING DEVICES OR PAVEMENT MARKINGS.

"POSTED" INDICATES POSTED (EXISTING) SPEED PRIOR TO WORK ACTIVITY.

"POSTED-XX" INDICATES A REDUCTION IN THE SPEED LIMIT BY THE AMOUNT SHOWN IN MPH.

WORK ZONE SPEED LIMIT

\* CONDITIONS MAY ALLOW FOR SPEEDS GREATER THAN 35 MPH.

#### GENERAL NOTES:

REDUCED SPEEDS SHALL NOT BE BELOW 35 MPH EXCEPT WHEN LOCAL ORDINANCE PROVIDES FOR A LOWER SPEED, THE LOWER SPEED WILL BE USED WHEN APPLICABLE.

ON DIVIDED HIGHWAYS, THE REDUCED SPEED IS APPLICABLE TO THE AFFECTED DIRECTION OF TRAVEL ONLY. WHEN TRAFFIC ON DIVIDED HIGHWAYS IS DETOURED TO A HEAD-TO-HEAD OPERATION, THE SPEED LIMIT SHALL BE "POSTED-10" MPH.

IF A SPEED REDUCTION IS USED. EXISTING SPEED LIMIT SIGNS WITHIN THE WORK ZONE SHALL BE COVERED OR REMOVED. SPEED LIMIT SIGNS INDICATING THE NORMAL SPEED LIMIT SHALL BE INSTALLED AT THE END OF THE WORK ZONE, PROVIDED NO FURTHER WORK ZONES WILL BE ENCOUNTERED WITHIN THE NEXT MILE.

IF THERE ARE GEOMETRICS IN THE WORK ZONE THAT REQUIRE A LOWER SPEED THAN THE SPEED INDICATED IN THE CHART (I.E. TEMPORARY BYPASSES, NARROW LANES, ETC.), APPROPRIATE WARNING SIGNS WITH ADVISORY SPEED PLATES SHALL BE USED TO ADVISE OF THIS SPECALIZED SITUATION.

TEMPORARY SPEED LIMIT SIGNS AND REDUCED SPEED AHEAD SIGNS SHALL BE COVERED OR REMOVED WHEN THE CONDITIONS REQUIRING REDUCED SPEEDS DO NOT EXIST.

SPECIAL ACTIVITY WITHIN A WORK ZONE MAY REQUIRE A LOWER SPEED LIMIT THAN THE GENERAL WORK ZONE SPEED LIMIT. THE FURTHER REDUCED SPEED LIMIT SHALL BE EFFECTIVE ONLY FOR THE DURATION OF THAT SPECIAL ACTIVITY.

FOR SPEED REDUCTIONS GREATER THAN 20 MPH. THE SPEED LIMIT SHOULD BE REDUCED IN TWO STAGES.

DEVIATIONS FROM THIS CHART SHALL BE DOCUMENTED.

U	DEVIATIONS FROM THIS CHART SHALL BE DOCUMENTED.							
	MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION							
		TRAFFIC CO	NTROL DEV	ICES				
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LETTER SIZE   COLOR	П			LETT	ER SIZE	.   _	OLOR		
	SIGN	SIZE	AREA	LEII	ER SIZE			DESCRIPTION	
SIGN SIZE AREA LINE 1 LINE 2 LINE 3 LINE 3 LEGG GROUND DESCRIPTION	3101		SO. ET.)	LINE 1	LINE 2 LIN		BACK	DESCRIPTION	
100	╂	(IN.) K	(50. FT.)	( IN. )	.,		_	CLONG	RIGHT WET VIELD
WARNING SIGNS								SIGNS	LANE PAINT TIELD NARROW
WF20-4 36X36 9.00 5C 5C 5C BK FL- OR ONE LANE ROAD AHEAD (2) (6			13.25	160				STOP (2	020020
WF20-5 36X36 9.00 5C 5C 5C BK FL. OR RIGHT LANE/CENTER LANE/LEFT LANE CLOSED AHEAD (2) (6) (7 WF20-6a 36X36 9.00 6C 6C 6C BK FL. OR RIGHT/CENTER/LEFT LANE CLOSED (5) (6) (7		48 TRI. 20X9	1.25	4C 4D		RD		YIELD (1 4-WAY (PLAQUE) (3	
WE21-4 36X36 9.00 5D 5D 5D BK FL. DR ROAD WORK AHEAD (2) (6)		20X9	1.25	4D		WH			WF20-6a (5)(6)(7) WO3-2 (5) WO5-5 (5)
WF22-Ge 21X15 2.19 3D 3D ARROW BK FL. DR WET PAINT (ARROW PIVOTS) (5) (6		36X48	12.00	6E		4E BK			
W01-1L 48X48 16.00 BK OR TURN (SYMBOL LEFT ARROW) (2 W01-1R 48X48 16.00 BK OR TURN (SYMBOL RIGHT ARROW) (2		36X48	12.00	8B	8C 8			REDUCED SPEED AHEAD (2)	
W01-1R		48X48 48X48	16.00			BK/R		NO RIGHT TURN (SYMBOL)         (2           NO LEFT TURN (SYMBOL)         (2	LOW CLEARANCE XX FT.
W01-2R 48X48 16:00 BK OR CURVE (SYMBOL RIGHT ARROW) (2		36X36	9.00	1 OD	8D -	ВК		NO TURNS (2	
WD1-3L 48X48 16.00 BK DR REVERSE TURN (SYMBOL LEFT ARROW) (2		48X48	16.00			BK/R		ND U-TURN (SYMBOL) (2	
WO1-3R 48X48 16.00 BK OR REVERSE TURN (SYMBOL RIGHT ARROW) (2 WO1-4L 48X48 16.00 BK OR REVERSE CURVE (SYMBOL LEFT ARROW) (2		30X30 30X30	6.25	4C 4C		4C BK		LEFT LANE MUST TURN LEFT (2)	LOW CLEARANCE
W01-4L         48X48         16.00           BK         OR         REVERSE CURVE (SYMBOL LEFT ARROW)         (2           W01-4R         48X48         16.00           BK         OR         REVERSE CURVE (SYMBOL RIGHT ARROW)         (2		36X48	12.00	4C 8D		BD BK		RIGHT LANE MUST TURN RIGHT (2: DD NDT PASS (2	
W01-4bL 48X48 16:00 BK OR DOUBLE ARROW REVERSE CURVE (SYMBDL LEFT ARROWS) (4		36X48	12.00	8C	8C 6	BC BK		PASS WITH CARE (2	
WO1-4br 48X48 16.00 BK OR DOUBLE ARROW REVERSE CURVE (SYMBOL RIGHT ARROWS) (4		36X48	12.00	8D		BD BK		KEEP LEFT (HORIZONTAL ARROW) (2	1)
W01-4cL 48X48 16.00 BK OR TRIPLE ARROW REVERSE CURVE (SYMBOL LEFT ARROWS) (4 W01-4cR 48X48 16.00 BK OR TRIPLE ARROW REVERSE CURVE (SYMBOL RIGHT ARROWS) (4		36X48 36X36	12.00	8D 8D	ARROW E	30 BK		KEEP RIGHT (HORIZONTAL ARROW) (2 KEEP LEFT (5	
W01-6 48X24 8.00 BK OR HORIZONTAL ARROW (SYMBOL) (2		36X36	9.00	8D	8D -	BK			- CONTRACTOR OF THE CONTRACTOR
WD1-6d 72X36 18.00 BK DR HDRIZONTAL ARROW (SYMBOL DN BARRICADE) (3	R5-1	30X30	6.25	4D	4	40 RD	WH	DO NOT ENTER (1	MINIMUM CONST. 7X (5)
W01-7 48X24 8.00 BK OR DOUBLE HEAD HORIZONTAL ARROW (SYMBOL) (2		36X24	6.00	6E	6E	WH		WRONG WAY (1	3 3250 FINE XX' XX"
W01-7g 72X36 18.00 BK OR DOUBLE HEAD HORIZONTAL ARROW (SYMBOL ON BARRICADE) (3		48X18 48X18	6.00	5 ½0 5 ½0		BK		ONE WAY ARROW (LEFT) (1 ONE WAY ARROW (RIGHT) (1	IN THIS WORK ZONE
W01-8a 36X48 12.00 BK OR CHEVRON (SYMBOL FOR DIVIDED HIGHWAYS) (2		24X30	5.00	6D		ROW BK	_	1.	WODE TONE CONTRACTOR
W03-1 48X48 16:00 10D 10C BK OR STDP AHEAD (3	R6-2R	24X30	5.00	6D	6D ARF	ROW BK	WH	ONE WAY (RIGHT) (1	50.01 01 01
W03-2 48X48 16.00 10C 10C BK OR YIELD AHEAD (5		24X36	6.00	5D	-	50 BK			<u> </u>
W03-3		48X30 60X30	10.00	8D 6C	00	BK			
W04-1L			12.50	6C		C BK		ROAD CLOSED XX MILES AREAD LOCAL TRAFFIC UNLY (2	- / / / / / / / / / / / / / / / / / / /
W05-1 48X48 16.00 8D 8D BK OR ROAD NARROWS (2	R12-3b	36X36	9.00	6D	6B 6	SC BK	WH	TO DNCOMING TRAFFIC (PLAQUE) (5	TRENCH WORK BLASTING
W05-3 48X48 16.00 8C 8C BK OR ONE LANE BRIDGE (2		36X15	3.75	4D	40	BK			AHEAD/
W05-5 48X48 16.00 8C 8C BK OR NARROW LANES (5 W06-1 48X48 16.00 BK OR DIVIDED HIGHWAY (SYMBOL) 12		18 DCT. 60X48	20.00	6C/6B 6E				STOP/SLOW PADDLE (STOP/SLOW) (2   FINE SIGN (SEE LEGEND AT RIGHT) (5	
W06-2 48X48 16.00 BK OR DIVIDED HIGHWAY END (SYMBOL) (2		57X9		6C				SPEEDING/PASSING (PLATE) (5	
W06-3 48X48 16:00 BK OR TWO WAY TRAFFIC (SYMBDL) (1	)								
W07-3a 24X18 3.00 4C 4C BK OR NEXT XX MILES (PLAQUE) (2	4		-					FOR WARNING SIGNS	WAY KEED KEED TO
WO8-1 48X48 16.00 12D BK OR BUMP (2 WO8-2 48X48 16.00 12E BK OR DIP (2	4	20X6 26X9		5C 6C		BK		DR BRIDGE/RAMP (PLATE)(USE WITH WF21-4) (5) (6) 1000 FT/1500 FT (PLATE) (5)	4   STEW AND     NEEF     NEEF     Neer     Neer
WD8-2 48X48 16.00 12E BK OR DIP (2 WD8-3 48X48 16.00 8C 8C BK OR PAVEMENT ENDS (3		38X9		8D				500 FT/1000 FT (PLATE) (5)	TRAFFIC
W08-4 48X48 16.00 8C 8C BK OR SOFT SHOULDER (2	) W025-1c	34X9		7D		ВК	OR	500 FT/1000 FT (PLATE) (5)	R1-5 (5)
W08-5 48X48 16.00 BK OR SLIPPERY WHEN WET (SYMBOL) (2		28X9		7C		ВК	OR	BRIDGE/RAMP (PLATE) (USE WITH W021-4 OR W05-1) (5)	R4-17aL (5) R4-17aR (5) R12-3b (5)
WOB-6         48X48         16.00         8C         8C          BK         OR         TRUCK CROSSING         (2           WOB-6c         48X48         16.00         8C         8C          BK         OR         TRUCK ENTRANCE         (5								1	
W08-7 36X36 9.00 6D 6D BK OR LODSE GRAVEL (2						GU I	DE S	IGNS	BRIDGE 1000 FT 500 FT EXIT
W08-9 48X48 16.00 8C 8C BK OR LDW SHOULDER (2	) E05-1		20.00		ARROW	BK		GORE EXIT (5)	
W08-9a 48X48 16.00 8C 8C BK OR SHOULDER DROP-OFF (4			10.00	5D				ROAD WORK NEXT XX MILES (4) END ROAD WORK (2)	
W08-11         48X48         16.00         8D         8D          BK         OR         UNEVEN LANES         (4           W08-12         36X36         9.00         6D         6D         6D         BK         OR         ND CENTER STRIPE         (4		48X24 36X18	8.00 4.50	6C 5C	6C	BK	OR		OR W025-1a (5) OR E05-1 (5)
W10-1 42 RND. 9-62 9E BK YL RAILROAD CROSSING (3		36X12	3.00	6C		BK			W025-6 (5) W025-10 (5)
W012-1 24X24 4.00 BK OR DDUBLE DOWN ARROW (SYMBOL) (2		24X12	2.00	4B		ВК		ALTERNATE (PLAQUE) (1)	, , , , , , , , , , , , , , , , , , ,
WD12-2 48X48 16.00 16D BK OR LOW CLEARANCE (SYMBOL) (2		24X12	2.00	6B					
W012-2x 24X18 3.00 5D 3C BK OR LOW CLEARANCE (PLAQUE) (5 W012-3g.b 144X24 24.00 16D-12D BK OR OVERHEAD LOW CLEARANCE (FEET AND INCHES) (5		24X18 48X36	12.00	5C 8D	5C	BK	OR OR		
			12.00	8D		BK	OR		
SPECIAL 120X60 50.00 BE 10E BE BK OR WIDTH RESTRICTION XX'XX" XX MILES AHEAD (5	) MO4-10L	48X18	6.00	6D		Вк	OR	DETOUR (ARROW LEFT) (2)	
W013-1 24X24 4.00 10E 4E BK OR ADVISORY SPEED (PLAQUE) (2		48X18	6.00	6D					
W020-2 48X48 16.00 8D 8D BK DR DETOUR AHEAD (2 W020-3 48X48 16.00 7D 7D 7D BK OR RDAD CLOSED AHEAD (2		21X15 21X15	2.19			BK	WH	ADVANCE LEFT TURN ARROW (1) ADVANCE RIGHT TURN ARROW (1)	LARGER SIGNS.
W020-4 48X48 16.00 7C 7C 7C BK OR ONE LANE ROAD CLUSED AHEAD (2		21X15 21X15	2.19					TURN ARROW (1)	
WD20-5 48X48 16:00 6C 6C 6C BK DR RIGHT LANE/CENTER LANE/LEFT LANE CLOSED AHEAD (2) (7		21X15	2.19					STRAIGHT ARROW (1)	
W020-6a 48X48 16.00 7D 7D 7D BK OR RIGHT/CENTER/LEFT LANE CLOSED (5) (7	1				·		-		
W020-7a         48X48         16.00           BK         OR         FLAGGER (SYMBOL)         (2           W020-7x         24X18         3.00         5D         5D          BK         OR         500 FEET/1000 FEET (PLAQUE)         (2	NOTES:								THE CONST-3A SIGN MAY BE MADE DUT OF 0.080 IN. ALUMINUM ONLY IF USED ON AN APPROVED PORTABLE STAND TESTED AND ACCEPTED AS A SYSTEM TO MEET THE REQUIREMENTS OF NOHRP 350.
W020-75 48X48 16.00 8C 8C 8C BK OR BE PREPARED TO STOP (4	(1) SEE STAN	DARD PLAN S	903.02 F	OR SIGN	LAYOUT.				MISSOURI HIGHWAYS AND TRANSPORTATION
W020-9c 48X48 16.00 8D 8D 8D BK OR OPEN TRENCH (5						T EDITIO	N OF "S	TANDARD HIGHWAY SIGNS" BY THE U.S. DEPARTMENT OF	COMMISSION
MUZ1-2									,
W021-4         48X48         16.00         7D         7D         7D         BK         OR         R0AD WORK AHEAD         (2           W021-5b         48X48         16.00         7C         7C         7C         BK         OR         SHDULDER WORK AHEAD         (5								RDANCE WITH THE LATEST EDITION OF "STANDARD HIGHWAY	
W021-75	(4) REFER TO	THE LATES	T EDITIO	N OF ML	JTCD PART VI	BY THE	J.S. DE	PARTMENT OF TRANSPORTATION - FHWA FOR SIGN DEPICTION SET FORTH IN THE LATEST EDITION OF "STANDARD HIGHWA	IN TRAFFIC CONTROL SEVICES
W022-1 48X48 16.00 7C 7C 7C BK OR BLASTING ZONE 1000 FT (2	SIGNS" B	Y THE U.S.	DEPARTM	ENT OF	TRANSPORTAT	ION - FH	NA.	TELESCOPE STATE OF STANDARD HIGHER	TRAFFIC CONTROL DEVICES
W022-2 42X36 10.50 4E 4E 4E/4E BK OR TURN OFF 2-WAY RADIO AND PHONE (4	(5) ARROW. B	ORDERS AND	SPACING TRANSPO	SHALL	BE IN ACCOR	DANCE WI	TH THE	LATEST EDITION OF "STANDARD HIGHWAY SIGNS" BY THE	
WD22-3 42X36 10.50 7C 7C 7C BK OR END BLASTING ZONE (2 WD25-5 30X12 2.50 6C BK OR 4 MILE/1 MILE (PLAQUE) (5	1 .c. \ DACKCDOU								
W025-5 30X12 2.50 6C BK OR ½ MILE/1 MILE (PLAQUE) (5	(7) USE OF A								
	(8) PLAQUE A	ND APPLICA	BLE REGL	JLATORY	SIGN MAY BE	MANUFAC	TURED A	S ONE SIGN.	DATE: EFFECTIVE: 04-01-2003 616.10AD 5
									5   STEEL   ST